ELSEVIER

Journal of Organometallic Chemistry 580 (1999) 403–404

Journal of Organometallic Chemistry

Author Index of Volume 580

Acebrón, S., 110
Adams, J.J., 245
Alt, H.G., 1
Ang, S.-H., 17
Aoki, K., 239
Arce, A.J., 339, 370
Arest-Yakubovich, A.A., 205
Arliguie, T., 137
Asahara, M., 282
Atencio, R., 339

Babin, V.N., 26
Bachert, I., 257
Baker, P.K., 265
Bartusseck, I., 257
Basset, J.-M., 128
Benetollo, F., 56
Berry, D.E., 245
Binkul, J.R., 354
Bocelli, G., 191
Boev, V.I., 26
Borgmann, C., 214
Böttcher, C., 72
Braunstein, P., 66, 257
Brocanelli, L., 344
Browning, J., 245
Bubnov, Y.N., 234
Burth, D., 245

Cariati, E., 117
Caruso, F., 344
Castro, A., 161
Catellani, M., 191
Chang, C.-C., 82
Chan, K.S., 22
Chen, H.-C., 82
Chen, J., 313
Chiang, C.-C., 82
Chi, K.-M., 82
Cingolani, A., 344
Colacot, T.J., 378
Coles, S.J., 304
Courtois, G., 178
Curnow, O.J., 245

Davankov, V.A., 26
Deeming, A.J., 339, 370
de la Encarnación, E., 108
De Sanctis, Y., 339, 370
Desré, V., 178
Di Trapani, A., 370
Drew, M.G.B., 265

Eisen, M.S., 145
Elias, A.J., 41
Ephritikhine, M., 137
Erabi, T., 282
Ezernitskaya, M.G., 36

Fan, J.-S., 82
Faville, S.J., 363
Ferrand, V., 225
Francis, M.D., 156
Fuchita, Y., 273
Fujiwara, Y., 290
Fun, H.-K., 17

Galakhov, M.V., 110, 161
Galan-Fereres, M., 145
Gau, H.-M., 98
Gómez, M., 161
Gómez-Sal, P., 110
Gonçalves, I.S., 169
Gray, G.M., 328
Guillon, E., 257

Haak, S., 225
Hanaki, T., 273
Hanif, K.M., 60
Hanuš, V., 210
Hariharasarma, M., 328
Harima, Y., 77
He, L., 313
Henderson, W., 363
Herberich, G.E., 66
Herdtweck, E., 169
Hey-Hawkins, E., 145
Hibbs, D.E., 156
Hitchcock, P.B., 156, 385
Hong, F.-E., 98
Horáček, M., 210
Huang, Y.-C., 98
Huh, W.S., 90
Hung, C.-K., 98
Hung, S.Y.-W., 48
Hursthouse, M.B., 60, 156, 304

Ilyin, M.M., 26
Isea, R., 339
Itoh, K., 239

Jia, C.-S., 201
Jones, C., 156
Jung, J., 90
Jung, M., 1

Kabir, S.E., 60
Kaifer, E., 214
Kawano, H., 273
Kelly, D.G., 304
Kickelbick, G., 257
Kim, J., 90
Kinoshita-Nagaoka, J., 273
Kitamura, T., 290
K. Kochi, J., 295
Koch, T., 145
Koga, Y., 188
Kolomiets, A.F., 26
Kondo, H., 239
Koridze, A.A., 36
Kunai, A., 77
Kupčík, J., 188

Lake, C.H., 328
Lance, M., 137
Lappert, M.F., 385
Layh, M., 385
Lee, D.-h., 90
Lee, F.-Y., 82
Lee, H.B., 90
Lee, S.W., 90
Lescop, C., 137
Limberg, C., 214
Lin, C.-C., 98
Li, S.-Y., 82
Liu, S.-H., 82
Lokshin, B.V., 36
Lucenti, E., 117
Lu, J., 313
Lu, K.-L., 82
Lu, W., 290

Machado, R., 339
Mach, K., 210
Mackewitz, T., 156
Mak, T.C.W., 22
Malik, K.M.A., 60
Marchetti, F., 344
Martín, A., 110
Mathieson, T.J., 363
Meehan, M.M., 265
Miginiac, L., 178
Moldes, I., 108
Motti, E., 191

Nagashima, H., 239
Natsume, S., 282
Neels, A., 225
Nekrasov, Y.S., 26
Neuschütz, M., 66
Nicholson, B.K., 363
Nierlich, M., 137
Nixon, J.F., 156
Nobata, M., 239
Nobuki, S.-i., 282
Noh, S.K., 90
Nyulaszi, L., 156

Ohshita, J., 77
Ong, C.-W., 17
Ossola, F., 56
Ouchi, A., 188

PII: S0022-328X(99)00044-3

Pakuro, N.I., 205
Pan, G., 313
Paterlini, L., 191
Petrovskii, P.V., 205
Pettinari, C., 344
Plzák, Z., 188
Podlaha, J., 210
Pola, J., 188
Pritzkow, H., 214

Ra, C.S., 90
Radom, L., 320
Reddy, N.D., 41
Regitz, M., 156
Rehder, D., 72
Righi, L., 191
Roberto, D., 117
Romão, C.C., 169
Rosé, J., 257
Rosenberg, E., 60
Ros, J., 108
Rossi, M., 344
Roveda, C., 117
Royo, B., 169
Royo, P., 110

Sakarya, N., 156
Sakharov, S.G., 205
Sánchez, F., 161
Santini, C.C., 128
Schmidt, H., 72
Schmidt, M.U., 66
Shcheglova, L.V., 205
Sølling, T.I., 320
Snegur, L.V., 26
Sokół, W., 354
Soler, J., 108
Speel, D.M., 370
Starikova, Z.A., 26
Štěpnička, P., 210
Stoeckli-Evans, H., 225
Sugimoto, K., 77
Süss-Fink, G., 225
Suzuki, A., 239
Szewczyk, J., 265

Takaki, K., 290
Taniguchi, Y., 290
Taoufik, M., 128
Tenkyuu, Y., 282
Teoh, S.-G., 17
Tok, O.L., 234
Toner, A.J., 304

Vázquez de Miguel, A., 110
Vij, A., 41

Wada, M., 282
Walker, N.M., 304
Wang, R.-J., 22
Wang, Z.-X., 201
Watkins, C.L., 328
Wen, Y.-S., 82
Wild, S.B., 320
Wong, W.-T., 48
Wrackmeyer, B., 234
Wu, J.-Y., 98

Xue, F., 22

Yamaoka, Y., 290
Yamashita, K., 77
Yanovsky, A.I., 26
Yoshinaga, K., 273

Zaidlewicz, M., 354
Zdanovich, V.I., 36
Zhou, X., 22
Zhou, X.-G., 201
Zhou, Z.-Y., 201
Zhuang, B., 313
Zhu, D., 295
Zsolnai, L., 214

ELSEVIER

Journal of Organometallic Chemistry 580 (1999) 405–411

Journal of Organometallic Chemistry

Subject Index of Volume 580

Ab initio
Exchange and insertion reactions involving borane adducts of phosphirane and phosphirene: a G2(MP2) ab initio investigation, 320
Acetylides
Solid-state aggregation of mercury bis-acetylides, $Hg(C{\equiv}CR)_2$, R = Ph, $SiMe_3$, 363
4-Acyl-5-pyrazolones
Tin(IV) and organotin(IV) derivatives of novel β-diketones: Part IV. Triorganotin(IV) complexes of fluorinated 4-acyl-5-pyrazolones. Crystal structure of (1-(4-trifluoromethylphenyl)-3-methyl-4-acetylpyrazolon-5-ato)triphenyltin(IV), 344
Aggregation
Solid-state aggregation of mercury bis-acetylides, $Hg(C{\equiv}CR)_2$, R = Ph, $SiMe_3$, 363
Alkenes
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
Alkoxide
Reactions of dinuclear carboxylate ruthenium (I) complexes with alcohols. The unexpected oxidation of primary alcohols to carboxylic ligands, 108
Alkyl
Alkyl and alkylidene imido cyclopentadienyl tungsten complexes, 110
Alkyl amido imido cyclopentadienyl complexes
Half-sandwich dichloro, alkyl chloro, dialkyl, alkyl methyl and amido methyl imido cyclopentadienyl niobium and tantalum(V) complexes. Dynamic behaviour of amido imido tantalum derivatives, 161
Alkylation
Reactivity of $AlMe_3$ with titanium(IV) Schiff base complexes: X-ray structure of $[Ti\{(\mu\text{-}Br)(AlMe_2)\}\{(\mu\text{-}Br)(AlMe_2X)\}(salen)] \cdot C_7H_8$ (X = Me or Br) and reactivity studies of mono-alkylated [Ti(Me)X(L)] complexes, 304
Alkylidene
Alkyl and alkylidene imido cyclopentadienyl tungsten complexes, 110
Alkyllithium
NMR study of the dynamic behaviour of the system 2-ethylhexylsodium-2-ethylhexyllithium in heptane, 205
Alkylsodium
NMR study of the dynamic behaviour of the system 2-ethylhexylsodium-2-ethylhexyllithium in heptane, 205
Alkynes
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
Synthesis and characterisation of the bidentately attached linear triphos complexes $[MXY(CO)(L\text{-}P,P')(\eta^2\text{-}RC_2R)]$ {M = Mo, W; X, Y = Cl, Br, I; $L = PhP(CH_2CH_2PPh_2)_2$; R = Me, Ph}. X-ray crystal structures of $[WX_2(CO)(L\text{-}P,P')(\eta^2\text{-}PhC_2Ph)]$ (X = Br and I) and $[MoI_2(O)\{Ph_2P(CH_2)_2PPh(CH_2)_2POPh_2\text{-}P,P',O\}]$, 265
Allyl
Syntheses and X-ray structures of complexes with $(\eta^3$-allyl)Mo-units in oxygen-rich coordination spheres, 214
1,1-Allylboration
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
1,2-Allylboration
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
Amine
Synthesis, structure, and reactivity of rhenium *N*-isocyanide complexes $ReBr(CO)_3(CNR)(CNNPPh_3)$, 82
Aromatic compounds
Palladium(II)-catalyzed carboxylation of benzene and other aromatic compounds with carbon monoxide under very mild conditions, 290
Arylation
Multiple arylations of aromatics via removable palladacycle scaffolds: polycyclic compounds and their way of formation, 191
Assembling ligands
Synthesis of Co_2Pt, Co_2Pd and $MoPd_2$ mixed-metal clusters with the P–N–P assembling ligands $(Ph_2P)_2NH$ (dppa) and $(Ph_2P)_2NMe$ (dppaMe). Crystal structure of $[Co_2Pt(\mu_3\text{-}CO)(CO)_6(\mu\text{-}dppa)]$, 257
Aza-allyl
Erratum to "The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry": [J. Organometallic Chem. 529 (1997) 243–255], 385

Benzene
Preparations and characterizations of homodinuclear complexes containing flyover bridge or cyclopentadienone ligands; X-ray crystal structures of $Co_2(CO)_3(PPh_3)\{\mu\text{-}C(SiMe_3){=}CH{-}CH{=}C(SiMe_3){-}CH{=}C(SiMe_3)\}$, $Co_2(CO)_2\text{-}(\mu\text{-}CO)_2(\eta^4$-2,5-bistrimethylsilylcyclopentadienone)$_2$ and 2,5-bis(trimethylsilanyl)cyclopenta-2,4-dien-1-one, 98
Benzimidazole
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26
Benzylamine
Cyclopalladation of mono-, di- and tribenzylamine by palladium(II) acetate. Influence of bulkiness around the nitrogen atom of benzylamine upon internal metallation, 273
Bimetallic
Synthesis of Co_2Pt, Co_2Pd and $MoPd_2$ mixed-metal clusters with the P–N–P assembling ligands $(Ph_2P)_2NH$ (dppa) and $(Ph_2P)_2NMe$ (dppaMe). Crystal structure of $[Co_2Pt(\mu_3\text{-}CO)(CO)_6(\mu\text{-}dppa)]$, 257
Bis(indenylidene) isomers
Synthesis and molecular structure of *cisoid* and *transoid* isomers of $[Re_2(CO)_6(1,1'\text{-bis(indenylidene)})]$ derived from the reaction of $[Re_2(CO)_8(MeCN)_2]$ and diazoindene, 339
Bond strength
Bis(2,6-dimethoxyphenyl) sulfide, selenide and telluride, and their derivatives, 282

PII: S0022-328X(99)00045-5

Borane adducts
Exchange and insertion reactions involving borane adducts of phosphirane and phosphirene: a G2(MP2) ab initio investigation, 320
Borole ligand
Cyano-bridged Fe–CN–Pt–NC–Fe chain complexes: structural and spectroscopic characterization of four isomers of [{η^5-(1-phenylborole)Fe(CO)$_2$(μ-CN)}$_2$Pt(PEt$_3$)$_2$], 66
Boron
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
Bridging-sulfur ligand
Synthesis of [(μ-RS)(μ-S){Fe$_2$(CO)$_6$}$_2$(μ_4-S)]$^-$ and their reactivity toward electrophiles, 201

Carbene
Synthesis, structure, and reactivity of rhenium *N*-isocyanide complexes ReBr(CO)$_3$(CNR)(CNNPPh$_3$), 82
Carbon dioxide
Bispentamethylcyclopentadienyl uranium(IV) thiolate compounds. Synthesis and reactions with CO$_2$ and CS$_2$, 137
Carbon disulfide
Bispentamethylcyclopentadienyl uranium(IV) thiolate compounds. Synthesis and reactions with CO$_2$ and CS$_2$, 137
Carbon–hydrogen and carbon–sulfur bond activation
Thermal and photochemical transformations of 2-methylthiothiophene in triosmium clusters: photoinduced migrations of MeS from carbon to metal and back again, 370
Carbon monoxide
Palladium(II)-catalyzed carboxylation of benzene and other aromatic compounds with carbon monoxide under very mild conditions, 290
Carbonyls
First structural characterisation of 1,2,4-selenadiphosphole and 1,2,4-telluradiphosphole ring systems. Crystal and molecular structures of the η^1-complexes [M(CO)$_5$(P$_2$SeC$_2$Bu$^t_2$)] (M = Cr, W) and [W(CO)$_5$(P$_2$TeC$_2$Bu$^t_2$)], 156
Site-selective carbonyl substitution in the mixed-metal cluster anion [H$_2$Ru$_3$Ir(CO)$_{12}$]$^-$: synthesis and characterization of phosphine, phosphite, arsine and stibine derivatives, 225
Synthesis and characterisation of the bidentately attached linear triphos complexes [MXY(CO)(L-*P*,*P*′)(η^2-RC$_2$R)] {M = Mo, W; X, Y = Cl, Br, I; L = PhP(CH$_2$CH$_2$PPh$_2$)$_2$; R = Me, Ph}. X-ray crystal structures of [WX$_2$(CO)(L-*P*,*P*′)(η^2-PhC$_2$Ph)] (X = Br and I) and [MoI$_2$(O){Ph$_2$P(CH$_2$)$_2$PPh(CH$_2$)$_2$POPh$_2$-*P*,*P*′,*O*}], 265
Synthesis, characterization and crystal structures of osmium–rhodium mixed-metal clusters containing pentamethylcyclopentadienyl ligand: [Os$_3$Rh(μ-CO)$_2$(CO)$_9$(η^5-Cp*)], [Os$_3$Rh$_2$(μ-H)(μ-CO)$_2$(CO)$_8$(η^5-Cp*)(μ_2-η^5,η^1-CH$_2$C$_5$Me$_4$)] and [Os$_3$Rh(μ_3-H)(μ-Cl)(μ-CO)(CO)$_9$(η^5-Cp*)], 48
Carbonyl activation
Synthesis, reactions and X-ray crystal structures of metallacrown ethers with unsymmetrical bis(phosphinite) and bis(phosphite) ligands derived from 2-hydroxy-2′-(1,4-bisoxo-6-hexanol)-1,1′-biphenyl, 328
Carbonylmanganese cations
Electron transfer versus nucleophilic pathways in the ion-pair annihilation of organoborate anions by carbonylmanganese(I) cations, 295
Carboxylate
Reactions of dinuclear carboxylate ruthenium (I) complexes with alcohols. The unexpected oxidation of primary alcohols to carboxylic ligands, 108
Carboxylation
Palladium(II)-catalyzed carboxylation of benzene and other aromatic compounds with carbon monoxide under very mild conditions, 290
Catalysis
C$_2$-bridged metallocene dichloride complexes of the types (C$_{13}$H$_8$–CH$_2$CHR–C$_9$H$_{6-n}$R′$_n$)ZrCl$_2$ and (C$_{13}$H$_8$–CH$_2$CHR–C$_{13}$H$_8$)MCl$_2$ (n = 0, 1; R = H, alkenyl; R′ = alkenyl, benzyl; M = Zr, Hf) as self-immobilizing catalyst precursors for ethylene polymerization, 1
C–H activation
Intermolecular C–H activation to a novel Rh nitrile bridged porphyrin coordination polymer, 22
Multiple arylations of aromatics via removable palladacycle scaffolds: polycyclic compounds and their way of formation, 191
Chiral cyclodextrin sorbents
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26
Chiral ligands
A C_2-symmetric analogue of dppf: synthesis and structures of the indenyl-diphosphine complex 1,3-(Ph$_2$PSe)$_2$(C$_9$H$_6$) and the racemic and *meso* isomers of the heterobimetallic complex Mo(CO)$_4$(1-PPh$_2$-η^5-C$_9$H$_6$)$_2$Fe, 245
Chromium
First structural characterisation of 1,2,4-selenadiphosphole and 1,2,4-telluradiphosphole ring systems. Crystal and molecular structures of the η^1-complexes [M(CO)$_5$(P$_2$SeC$_2$Bu$^t_2$)] (M = Cr, W) and [W(CO)$_5$(P$_2$TeC$_2$Bu$^t_2$)], 156
Clusters
Synthesis, characterization and crystal structures of osmium–rhodium mixed-metal clusters containing pentamethylcyclopentadienyl ligand: [Os$_3$Rh(μ-CO)$_2$(CO)$_9$(η^5-Cp*)], [Os$_3$Rh$_2$(μ-H)(μ-CO)$_2$(CO)$_8$(η^5-Cp*)(μ_2-η^5,η^1-CH$_2$C$_5$Me$_4$)] and [Os$_3$Rh(μ_3-H)(μ-Cl)(μ-CO)(CO)$_9$(η^5-Cp*)], 48
Synthesis of Co$_2$Pt, Co$_2$Pd and MoPd$_2$ mixed-metal clusters with the P–N–P assembling ligands (Ph$_2$P)$_2$NH (dppa) and (Ph$_2$P)$_2$NMe (dppaMe). Crystal structure of [Co$_2$Pt(μ_3-CO)(CO)$_6$(μ-dppa)], 257
Thermal and photochemical transformations of 2-methylthiothiophene in triosmium clusters: photoinduced migrations of MeS from carbon to metal and back again, 370
Complexes
First structural characterisation of 1,2,4-selenadiphosphole and 1,2,4-telluradiphosphole ring systems. Crystal and molecular structures of the η^1-complexes [M(CO)$_5$(P$_2$SeC$_2$Bu$^t_2$)] (M = Cr, W) and [W(CO)$_5$(P$_2$TeC$_2$Bu$^t_2$)], 156
Synthesis of [(μ-RS)(μ-S){Fe$_2$(CO)$_6$}$_2$(μ_4-S)]$^-$ and their reactivity toward electrophiles, 201
Coordination polymer
Intermolecular C–H activation to a novel Rh nitrile bridged porphyrin coordination polymer, 22
Cp$_2$TiCl$_2$ catalyst
Cp$_2$TiCl$_2$ catalyzed one-pot synthesis of *n*-Bu$_3$GeH from GeCl$_4$, 378
Crystal structure
Erratum to "The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry": [J. Organometallic Chem. 529 (1997) 243–255], 385
Ring-opening reactions of thiomorpholine and thiazolidine by [Ru$_3$(CO)$_{12}$]: crystal structures of [Ru$_3$(μ-H)(μ-η^2-SCH$_2$CH$_2$NH$_2$)(CO)$_9$] and [Ru$_2$(μ-η^3-SCH$_2$CH$_2$NHCH$_2$)(CO)$_6$], 60
Synthesis and characterisation of the bidentately attached linear triphos complexes [MXY(CO)(L-*P*,*P*′)(η^2-RC$_2$R)] {M = Mo, W; X, Y = Cl, Br, I; L = PhP(CH$_2$CH$_2$PPh$_2$)$_2$; R = Me, Ph}. X-ray crystal structures of [WX$_2$(CO)(L-*P*,*P*′)(η^2-PhC$_2$Ph)] (X = Br and I) and [MoI$_2$(O){Ph$_2$P(CH$_2$)$_2$PPh(CH$_2$)$_2$POPh$_2$-*P*,*P*′,*O*}], 265
Synthesis and molecular structure of the tetranuclear μ_4-oxo-centered chromium complex [Cr$_4$(CH$_2$CH$_2$CH$_2$NMe$_2$)$_4$(μ_4-O)(μ-Cl)$_6$], 56

Synthesis and structural characterization of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$ and $[(dppm)(CO)_2Mo(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2Mo(O)]_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-}O)$ and electrochemical property of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$, 313
Tin(IV) and organotin(IV) derivatives of novel β-diketones: Part IV. Triorganotin(IV) complexes of fluorinated 4-acyl-5-pyrazolones. Crystal structure of (1-(4-trifluoromethylphenyl)-3-methyl-4-acetylpyrazolon-5-ato)triphenyltin(IV), 344

Cyanide ligand
Cyano-bridged Fe–CN–Pt–NC–Fe chain complexes: structural and spectroscopic characterization of four isomers of $[\{\eta^5\text{-}(1\text{-phenylborole})Fe(CO)_2(\mu\text{-}CN)\}_2Pt(PEt_3)_2]$, 66

Cyclocarbaphosphazene
Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, $(ClCN)_2(Cl_2PN)$, 41

Cyclopalladation
Cyclopalladation of mono-, di- and tribenzylamine by palladium(II) acetate. Influence of bulkiness around the nitrogen atom of benzylamine upon internal metallation, 273

Cyclopentadienone
Preparations and characterizations of homodinuclear complexes containing flyover bridge or cyclopentadienone ligands; X-ray crystal structures of $Co_2(CO)_3(PPh_3)\{\mu\text{-}C(SiMe_3)\text{=}CH\text{–}CH\text{=}C(SiMe_3)\text{–}CH\text{=}C(SiMe_3)\}$, $Co_2(CO)_2(\mu\text{-}CO)_2(\eta^4\text{-}2,5\text{-bistrimethylsilylcyclopentadienone})_2$ and 2,5-bis(trimethylsilanyl)cyclopenta-2,4-dien-1-one, 98

Cyclopentadienyl
Synthesis of bis-cyclopentadienyl, bis-indenyl and mixed-ring indenyl halides of tungsten, 169

Cyclopentadienyl–cyclohexadienyl bond
A directly ring-to-ring linked ferrocene–pseudotitanocene complex, 210

Cyotoxity
Synthesis, crystal structure and biological activity of thiophene-2-carboxaldehyde thiosemicarbazone and its tin complexes, 17

Dealkylation reaction
Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, $(ClCN)_2(Cl_2PN)$, 41

Dialkylaminomethylferrocenes
Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, $(ClCN)_2(Cl_2PN)$, 41

Diazoindene
Synthesis and molecular structure of *cisoid* and *transoid* isomers of $[Re_2(CO)_6$(1,1′-bis(indenylidene)] derived from the reaction of $[Re_2(CO)_8(MeCN)_2]$ and diazoindene, 339

Di-cobalt complexes
Preparations and characterizations of homodinuclear complexes containing flyover bridge or cyclopentadienone ligands; X-ray crystal structures of $Co_2(CO)_3(PPh_3)\{\mu\text{-}C(SiMe_3)\text{=}CH\text{–}CH\text{=}C(SiMe_3)\text{–}CH\text{=}C(SiMe_3)\}$, $Co_2(CO)_2(\mu\text{-}CO)_2(\eta^4\text{-}2,5\text{-bistrimethylsilylcyclopentadienone})_2$ and 2,5-bis(trimethylsilanyl)cyclopenta-2,4-dien-1-one, 98

Diels–Alder reaction
Syntheses with organoboranes. IX. Vinyl- and 1-alkenyldichloroboranes as ethylene and 1-alkene equivalents for the Diels–Alder reaction, 354

2,6-Dimethoxyphenyl
Bis(2,6-dimethoxyphenyl) sulfide, selenide and telluride, and their derivatives, 282

Dinuclear complexes
Syntheses of polymethylene bridged dinuclear zirconocenes and investigation of their polymerisation activities, 90

1,3-Diphenyldisiloxane
CO_2 laser photosensitised decomposition of 1,3-diphenyldisiloxane in the liquid phase: formation of poly(phenylsiloxanes) via extrusion/insertion of phenylsilanone, 188

Diphosphines
Synthesis of Co_2Pt, Co_2Pd and $MoPd_2$ mixed-metal clusters with the P–N–P assembling ligands $(Ph_2P)_2NH$ (dppa) and $(Ph_2P)_2NMe$ (dppaMe). Crystal structure of $[Co_2Pt(\mu_3\text{-}CO)(CO)_6(\mu\text{-dppa})]$, 257

Distannylated derivatives
Syntheses of polymethylene bridged dinuclear zirconocenes and investigation of their polymerisation activities, 90

DNMR
NMR study of the dynamic behaviour of the system 2-ethylhexylsodium-2-ethylhexyllithium in heptane, 205

Electrochemistry
Synthesis and structural characterization of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$ and $[(dppm)(CO)_2Mo(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2Mo(O)]_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-}O)$ and electrochemical property of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$, 313

Electron transfer
Electron transfer versus nucleophilic pathways in the ion-pair annihilation of organoborate anions by carbonylmanganese(I) cations, 295

Electro-oxidation
Electrochemical and optical properties of poly[(disilanylene)oligophenylenes], peculiar behavior in the solid state, 77

Exchange
Exchange and insertion reactions involving borane adducts of phosphirane and phosphirene: a G2(MP2) ab initio investigation, 320

Face-capping ligand
A tetraruthenium carbonyl cluster bearing indenyl-type ligand as the facial bonding mode, 239

Ferrocene
Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, $(ClCN)_2(Cl_2PN)$, 41

Ferrocene derivatives
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26

Ferrocene–pseudotitanocene complex
A directly ring-to-ring linked ferrocene–pseudotitanocene complex, 210

Ferrocenylacetylene
A directly ring-to-ring linked ferrocene–pseudotitanocene complex, 210

α-Ferrocenylalkylation
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26

Flyover bridge
Preparations and characterizations of homodinuclear complexes containing flyover bridge or cyclopentadienone ligands; X-ray crystal structures of $Co_2(CO)_3(PPh_3)\{\mu\text{-}C(SiMe_3)\text{=}CH\text{–}CH\text{=}C(SiMe_3)\text{–}CH\text{=}C(SiMe_3)\}$, $Co_2(CO)_2(\mu\text{-}CO)_2(\eta^4\text{-}2,5\text{-bistrimethylsilylcyclopentadienone})_2$ and 2,5-bis(trimethylsilanyl)cyclopenta-2,4-dien-1-one, 98

Formate
Reactions of dinuclear carboxylate ruthenium (I) complexes with alcohols. The unexpected oxidation of primary alcohols to carboxylic ligands, 108

Fungitoxicity
Synthesis, crystal structure and biological activity of thiophene-2-carboxaldehyde thiosemicarbazone and its tin complexes, 17

$GeCl_4$
Cp_2TiCl_2 catalyzed one-pot synthesis of n-Bu_3GeH from $GeCl_4$, 378

Geometry constrained catalysts
Synthesis and olefin polymerization using supported and non-supported geometry constrained titanium complexes, 145
Germanium
New optically active organogermane compounds containing the adamantyl radical for heterogeneous bimetallic catalysis. Part II, 128

Halide
Synthesis and characterisation of the bidentately attached linear triphos complexes $[MXY(CO)(L\text{-}P,P')(\eta^2\text{-}RC_2R)]$ {M = Mo, W; X, Y = Cl, Br, I; L = $PhP(CH_2CH_2PPh_2)_2$; R = Me, Ph}. X-ray crystal structures of $[WX_2(CO)(L\text{-}P,P')(\eta^2\text{-}PhC_2Ph)]$ (X = Br and I) and $[MoI_2(O)\{Ph_2P(CH_2)_2PPh(CH_2)_2POPh_2\text{-}P,P',O\}]$, 265
Heterobimetallic
A C_2-symmetric analogue of dppf: synthesis and structures of the indenyl-diphosphine complex 1,3-$(Ph_2PSe)_2(C_9H_6)$ and the racemic and *meso* isomers of the heterobimetallic complex $Mo(CO)_4(1\text{-}PPh_2\text{-}\eta^5\text{-}C_9H_6)_2Fe$, 245
Heterogeneous bimetallic catalysts
New optically active organogermane compounds containing the adamantyl radical for heterogeneous bimetallic catalysis. Part II, 128
Heterogeneous Ziegler–Natta polymerization
Synthesis and olefin polymerization using supported and non-supported geometry constrained titanium complexes, 145
Heterometallic complexes
Cyano-bridged Fe–CN–Pt–NC–Fe chain complexes: structural and spectroscopic characterization of four isomers of $[\{\eta^5\text{-}(1\text{-phenylborole})Fe(CO)_2(\mu\text{-}CN)\}_2Pt(PEt_3)_2]$, 66
Homodinuclear complexes
Preparations and characterizations of homodinuclear complexes containing flyover bridge or cyclopentadienone ligands; X-ray crystal structures of $Co_2(CO)_3(PPh_3)\{\mu\text{-}C(SiMe_3)=CH-CH=C(SiMe_3)-CH=C(SiMe_3)\}$, $Co_2(CO)_2(\mu\text{-}CO)_2(\eta^4\text{-}2,5\text{-bistrimethylsilylcyclopentadienone})_2$ and 2,5-bis(trimethylsilanyl)cyclopenta-2,4-dien-1-one, 98
Homogeneous Ziegler–Natta polymerization
Synthesis and olefin polymerization using supported and non-supported geometry constrained titanium complexes, 145
HPLC
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26
Hydride
Synthesis of bis-cyclopentadienyl, bis-indenyl and mixed-ring indenyl halides of tungsten, 169
Hydrido
Site-selective carbonyl substitution in the mixed-metal cluster anion $[H_2Ru_3Ir(CO)_{12}]^-$: synthesis and characterization of phosphine, phosphite, arsine and stibine derivatives, 225

Imido
Alkyl and alkylidene imido cyclopentadienyl tungsten complexes, 110
μ-Indenylidene
Synthesis and molecular structure of *cisoid* and *transoid* isomers of $[Re_2(CO)_6(1,1'\text{-bis(indenylidene)})]$ derived from the reaction of $[Re_2(CO)_8(MeCN)_2]$ and diazoindene, 339
Indenyl-phosphine complexes
A C_2-symmetric analogue of dppf: synthesis and structures of the indenyl-diphosphine complex 1,3-$(Ph_2PSe)_2(C_9H_6)$ and the racemic and *meso* isomers of the heterobimetallic complex $Mo(CO)_4(1\text{-}PPh_2\text{-}\eta^5\text{-}C_9H_6)_2Fe$, 245
Indeyl
A tetraruthenium carbonyl cluster bearing indenyl-type ligand as the facial bonding mode, 239
Insertion
Exchange and insertion reactions involving borane adducts of phosphirane and phosphirene: a G2(MP2) ab initio investigation, 320
Insertion reactions
Bispentamethylcyclopentadienyl uranium(IV) thiolate compounds. Synthesis and reactions with CO_2 and CS_2, 137
Ion-pair annihilation
Electron transfer versus nucleophilic pathways in the ion-pair annihilation of organoborate anions by carbonylmanganese(I) cations, 295
IR
Tin(IV) and organotin(IV) derivatives of novel β-diketones: Part IV. Triorganotin(IV) complexes of fluorinated 4-acyl-5-pyrazolones. Crystal structure of (1-(4-trifluoromethylphenyl)-3-methyl-4-acetylpyrazolon-5-ato)triphenyltin(IV), 344
Iridium
Site-selective carbonyl substitution in the mixed-metal cluster anion $[H_2Ru_3Ir(CO)_{12}]^-$: synthesis and characterization of phosphine, phosphite, arsine and stibine derivatives, 225
Iron
Cyano-bridged Fe–CN–Pt–NC–Fe chain complexes: structural and spectroscopic characterization of four isomers of $[\{\eta^5\text{-}(1\text{-phenylborole})Fe(CO)_2(\mu\text{-}CN)\}_2Pt(PEt_3)_2]$, 66
Synthesis of $[(\mu\text{-}RS)(\mu\text{-}S)\{Fe_2(CO)_6\}_2(\mu_4\text{-}S)]^-$ and their reactivity toward electrophiles, 201
IR spectroscopy
IR study of rotational isomerism in dirhenium and diruthenium complexes of the ferrole type, 36
Isocyanide
Methylcyclopentadienyl-vanadium(III) complexes, 72

Synthesis, structure, and reactivity of rhenium *N*-isocyanide complexes $ReBr(CO)_3(CNR)(CNNPPh_3)$, 82
Laser-induced decomposition
CO_2 laser photosensitised decomposition of 1,3-diphenyldisiloxane in the liquid phase: formation of poly(phenylsiloxanes) via extrusion/insertion of phenylsilanone, 188
Linkage isomerism
Cyano-bridged Fe–CN–Pt–NC–Fe chain complexes: structural and spectroscopic characterization of four isomers of $[\{\eta^5\text{-}(1\text{-phenylborole})Fe(CO)_2(\mu\text{-}CN)\}_2Pt(PEt_3)_2]$, 66
Lithium
Erratum to "The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry": [J. Organometallic Chem. 529 (1997) 243–255], 385

Mercuriophilic interactions
Solid-state aggregation of mercury bis-acetylides, $Hg(C{\equiv}CR)_2$, R = Ph, $SiMe_3$, 363
Mercury
Solid-state aggregation of mercury bis-acetylides, $Hg(C{\equiv}CR)_2$, R = Ph, $SiMe_3$, 363
Metal carbonyls
IR study of rotational isomerism in dirhenium and diruthenium complexes of the ferrole type, 36
Metallacycles
IR study of rotational isomerism in dirhenium and diruthenium complexes of the ferrole type, 36
Metallcrown ethers
Synthesis, reactions and X-ray crystal structures of metallacrown ethers with unsymmetrical bis(phosphinite) and bis(phosphite) ligands derived from 2-hydroxy-2′-(1,4-bisoxo-6-hexanol)-1,1′-biphenyl, 328
Metallocene complexes
C_2-bridged metallocene dichloride complexes of the types $(C_{13}H_8\text{–}CH_2CHR\text{–}C_9H_{6-n}R'_n)ZrCl_2$ and $(C_{13}H_8\text{–}CH_2CHR\text{–}C_{13}H_8)MCl_2$ ($n = 0$, 1; R = H, alkenyl; R′ = alkenyl, benzyl; M = Zr, Hf) as self-immobilizing catalyst precursors for ethylene polymerization, 1

Methylcyclopentadienyl
Methylcyclopentadienyl-vanadium(III) complexes, 72
Mixed-metal clusters
Site-selective carbonyl substitution in the mixed-metal cluster anion $[H_2Ru_3Ir(CO)_{12}]^-$: synthesis and characterization of phosphine, phosphite, arsine and stibine derivatives, 225
Mixed-ring indenyl and bis-indenyl halides complexes
Synthesis of bis-cyclopentadienyl, bis-indenyl and mixed-ring indenyl halides of tungsten, 169
Molybdenum
Synthesis and characterisation of the bidentately attached linear triphos complexes $[MXY(CO)(L\text{-}P,P')(\eta^2\text{-}RC_2R)]$ {M = Mo, W; X, Y = Cl, Br, I; L = $PhP(CH_2CH_2PPh_2)_2$; R = Me, Ph}. X-ray crystal structures of $[WX_2(CO)(L\text{-}P,P')(\eta^2\text{-}PhC_2Ph)]$ (X = Br and I) and $[MoI_2(O)\{Ph_2P(CH_2)_2PPh(CH_2)_2POPh_2\text{-}P,P',O\}]$, 265
Synthesis and structural characterization of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$ and $[(dppm)(CO)_2Mo(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2Mo(O)]_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-}O)$ and electrochemical property of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$, 313
Molybdenum complexes
Syntheses and X-ray structures of complexes with $(\eta^3$-allyl)Mo-units in oxygen-rich coordination spheres, 214
Mo_2S_2 unit
Synthesis and structural characterization of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$ and $[(dppm)(CO)_2Mo(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2Mo(O)]_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-}O)$ and electrochemical property of $Mo_2(\mu\text{-}SC_6H_4\text{–}Cl\text{-}p)_2(\mu\text{-dppm})(CO)_6$, 313

Niobium
Half-sandwich dichloro, alkyl chloro, dialkyl, alkyl methyl and amido methyl imido cyclopentadienyl niobium and tantalum(V) complexes. Dynamic behaviour of amido imido tantalum derivatives, 161
NMR
Cp_2TiCl_2 catalyzed one-pot synthesis of n-Bu_3GeH from $GeCl_4$, 378
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
Tin(IV) and organotin(IV) derivatives of novel β-diketones: Part IV. Triorganotin(IV) complexes of fluorinated 4-acyl-5-pyrazolones. Crystal structure of (1-(4-trifluoromethylphenyl)-3-methyl-4-acetylpyrazolon-5-ato)triphenyltin(IV), 344
NMR spectra
A directly ring-to-ring linked ferrocene–pseudotitanocene complex, 210
N-Trimethylsilylimines
Synthèse régiosélective par voie organozincique de 1,4-diamines primaires propargyliques et applications, 178
Nucleophilic attack
Electron transfer versus nucleophilic pathways in the ion-pair annihilation of organoborate anions by carbonylmanganese(I) cations, 295

α-Olefin polymerization
Synthesis and olefin polymerization using supported and non-supported geometry constrained titanium complexes, 145
Oligophenylene polymer
Electrochemical and optical properties of poly[(disilanylene)oligophenylenes], peculiar behavior in the solid state, 77
One-pot synthesis
Cp_2TiCl_2 catalyzed one-pot synthesis of n-Bu_3GeH from $GeCl_4$, 378
Onium
Bis(2,6-dimethoxyphenyl) sulfide, selenide and telluride, and their derivatives, 282
Optically active organogermane compounds
New optically active organogermane compounds containing the adamantyl radical for heterogeneous bimetallic catalysis. Part II, 128
Organoborate anions
Electron transfer versus nucleophilic pathways in the ion-pair annihilation of organoborate anions by carbonylmanganese(I) cations, 295
Organosilicon polymer
Electrochemical and optical properties of poly[(disilanylene)oligophenylenes], peculiar behavior in the solid state, 77
Organozincs
Synthèse régiosélective par voie organozincique de 1,4-diamines primaires propargyliques et applications, 178
Osmium
Synthesis, characterization and crystal structures of osmium–rhodium mixed-metal clusters containing pentamethylcyclopentadienyl ligand: $[Os_3Rh(\mu\text{-}CO)_2(CO)_9(\eta^5\text{-}Cp^*)]$, $[Os_3Rh_2(\mu\text{-}H)(\mu\text{-}CO)_2(CO)_8(\eta^5\text{-}Cp^*)(\mu_2\text{-}\eta^5,\eta^1\text{-}CH_2C_5Me_4)]$ and $[Os_3Rh(\mu_3\text{-}H)(\mu\text{-}Cl)(\mu\text{-}CO)(CO)_9(\eta^5\text{-}Cp^*)]$, 48
Thermal and photochemical transformations of 2-methylthiothiophene in triosmium clusters: photoinduced migrations of MeS from carbon to metal and back again, 370
Osmium carbonyl clusters synthesis
High-yield syntheses, under mild conditions, of various neutral and anionic ruthenium and osmium carbonyl clusters by controlled reduction in ethylene glycol of $[M(CO)_3Cl_2]_2$ or MCl_3 (M=Ru, Os) in the presence of Na_2CO_3 or K_2CO_3, 117
Osmium trichloride reductive carbonylation
High-yield syntheses, under mild conditions, of various neutral and anionic ruthenium and osmium carbonyl clusters by controlled reduction in ethylene glycol of $[M(CO)_3Cl_2]_2$ or MCl_3 (M=Ru, Os) in the presence of Na_2CO_3 or K_2CO_3, 117
Oxide complex
Synthesis and characterisation of the bidentately attached linear triphos complexes $[MXY(CO)(L\text{-}P,P')(\eta^2\text{-}RC_2R)]$ {M = Mo, W; X, Y = Cl, Br, I; L = $PhP(CH_2CH_2PPh_2)_2$; R = Me, Ph}. X-ray crystal structures of $[WX_2(CO)(L\text{-}P,P')(\eta^2\text{-}PhC_2Ph)]$ (X = Br and I) and $[MoI_2(O)\{Ph_2P(CH_2)_2PPh(CH_2)_2POPh_2\text{-}P,P',O\}]$, 265
Oxygen
Syntheses and X-ray structures of complexes with $(\eta^3$-allyl)Mo-units in oxygen-rich coordination spheres, 214

Palladacycles
Multiple arylations of aromatics via removable palladacycle scaffolds: polycyclic compounds and their way of formation, 191
Palladium
Cyclopalladation of mono-, di- and tribenzylamine by palladium(II) acetate. Influence of bulkiness around the nitrogen atom of benzylamine upon internal metallation, 273
Palladium(II)-catalyzed carboxylation of benzene and other aromatic compounds with carbon monoxide under very mild conditions, 290
Pentamethylcyclopentadienyl
Synthesis, characterization and crystal structures of osmium–rhodium mixed-metal clusters containing pentamethylcyclopentadienyl ligand: $[Os_3Rh(\mu\text{-}CO)_2(CO)_9(\eta^5\text{-}Cp^*)]$, $[Os_3Rh_2(\mu\text{-}H)(\mu\text{-}CO)_2(CO)_8(\eta^5\text{-}Cp^*)(\mu_2\text{-}\eta^5,\eta^1\text{-}CH_2C_5Me_4)]$ and $[Os_3Rh(\mu_3\text{-}H)(\mu\text{-}Cl)(\mu\text{-}CO)(CO)_9(\eta^5\text{-}Cp^*)]$, 48
Phenylsilanone
CO_2 laser photosensitised decomposition of 1,3-diphenyldisiloxane in the liquid phase: formation of poly(phenylsiloxanes) via extrusion/insertion of phenylsilanone, 188
Phosphazene
Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, $(ClCN)_2(Cl_2PN)$, 41

Phosphetidine
Erratum to "The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry": [J. Organometallic Chem. 529 (1997) 243–255], 385
Phosphine
Site-selective carbonyl substitution in the mixed-metal cluster anion $[H_2Ru_3Ir(CO)_{12}]^-$: synthesis and characterization of phosphine, phosphite, arsine and stibine derivatives, 225
Phosphinite
Synthesis, reactions and X-ray crystal structures of metallacrown ethers with unsymmetrical bis(phosphinite) and bis(phosphite) ligands derived from 2-hydroxy-2′-(1,4-bisoxo-6-hexanol)-1,1′-biphenyl, 328
Phosphirane
Exchange and insertion reactions involving borane adducts of phosphirane and phosphirene: a G2(MP2) ab initio investigation, 320
Phosphirene
Exchange and insertion reactions involving borane adducts of phosphirane and phosphirene: a G2(MP2) ab initio investigation, 320
Phosphite
Synthesis, reactions and X-ray crystal structures of metallacrown ethers with unsymmetrical bis(phosphinite) and bis(phosphite) ligands derived from 2-hydroxy-2′-(1,4-bisoxo-6-hexanol)-1,1′-biphenyl, 328
Phosphonium salt
Erratum to "The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry": [J. Organometallic Chem. 529 (1997) 243–255], 385
Phosphorus
Erratum to "The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry": [J. Organometallic Chem. 529 (1997) 243–255], 385
Platinum
Cyano-bridged Fe–CN–Pt–NC–Fe chain complexes: structural and spectroscopic characterization of four isomers of $[\{\eta^5$-(1-phenylborole)$Fe(CO)_2(\mu$-CN$)\}_2Pt(PEt_3)_2]$, 66
Polyaromatics
Multiple arylations of aromatics via removable palladacycle scaffolds: polycyclic compounds and their way of formation, 191
Polyfluoro-benzimidazoles
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26
Polymerization
C_2-bridged metallocene dichloride complexes of the types $(C_{13}H_8-CH_2CHR-C_9H_{6-n}R'_n)ZrCl_2$ and $(C_{13}H_8-CH_2CHR-C_{13}H_8)MCl_2$ ($n = 0$, 1; R = H, alkenyl; R′ = alkenyl, benzyl; M = Zr, Hf) as self-immobilizing catalyst precursors for ethylene polymerization, 1
Polymethylene bridged dinuclear zirconocenes
Syntheses of polymethylene bridged dinuclear zirconocenes and investigation of their polymerisation activities, 90
Poly(phenylsiloxanes)
CO_2 laser photosensitised decomposition of 1,3-diphenyldisiloxane in the liquid phase: formation of poly(phenylsiloxanes) via extrusion/insertion of phenylsilanone, 188
Porphyrin
Intermolecular C–H activation to a novel Rh nitrile bridged porphyrin coordination polymer, 22
Primary 1,4-diamines
Synthèse régiosélective par voie organozincique de 1,4-diamines primaires propargyliques et applications, 178

Reaction
Synthesis of $[(\mu$-RS$)(\mu$-S$)\{Fe_2(CO)_6\}_2(\mu_4$-S$)]^-$ and their reactivity toward electrophiles, 201
Reaction rate
Bis(2,6-dimethoxyphenyl) sulfide, selenide and telluride, and their derivatives, 282
Regiospecificity
Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, $(ClCN)_2(Cl_2PN)$, 41
Rhenium
Synthesis, structure, and reactivity of rhenium *N*-isocyanide complexes $ReBr(CO)_3(CNR)(CNNPPh_3)$, 82
Rhenium carbonyls
Synthesis and molecular structure of *cisoid* and *transoid* isomers of $[Re_2(CO)_6$(1,1′-bis(indenylidene)] derived from the reaction of $[Re_2(CO)_8(MeCN)_2]$ and diazoindene, 339
Rhenium complexes
IR study of rotational isomerism in dirhenium and diruthenium complexes of the ferrole type, 36
Rhodium
Intermolecular C–H activation to a novel Rh nitrile bridged porphyrin coordination polymer, 22
Synthesis, characterization and crystal structures of osmium–rhodium mixed-metal clusters containing pentamethylcyclopentadienyl ligand: $[Os_3Rh(\mu$-CO$)_2(CO)_9(\eta^5$-Cp*$)]$, $[Os_3Rh_2(\mu$-H$)(\mu$-CO$)_2(CO)_8(\eta^5$-Cp*$)(\mu_2$-η^5,η^1-$CH_2C_5Me_4)]$ and $[Os_3Rh(\mu_3$-H$)(\mu$-Cl$)(\mu$-CO$)(CO)_9(\eta^5$-Cp*$)]$, 48
Ring-opening
Ring-opening reactions of thiomorpholine and thiazolidine by $[Ru_3(CO)_{12}]$: crystal structures of $[Ru_3(\mu$-H$)(\mu$-η^2-$SCH_2CH_2NH_2)(CO)_9]$ and $[Ru_2(\mu$-η^3-$SCH_2CH_2NHCH_2)(CO)_6]$, 60
Rotational isomerism
IR study of rotational isomerism in dirhenium and diruthenium complexes of the ferrole type, 36
Ruthenium
A tetraruthenium carbonyl cluster bearing indenyl-type ligand as the facial bonding mode, 239
Reactions of dinuclear carboxylate ruthenium (I) complexes with alcohols. The unexpected oxidation of primary alcohols to carboxylic ligands, 108
Ring-opening reactions of thiomorpholine and thiazolidine by $[Ru_3(CO)_{12}]$: crystal structures of $[Ru_3(\mu$-H$)(\mu$-η^2-$SCH_2CH_2NH_2)(CO)_9]$ and $[Ru_2(\mu$-η^3-$SCH_2CH_2NHCH_2)(CO)_6]$, 60
Site-selective carbonyl substitution in the mixed-metal cluster anion $[H_2Ru_3Ir(CO)_{12}]^-$: synthesis and characterization of phosphine, phosphite, arsine and stibine derivatives, 225
Ruthenium carbonyl clusters synthesis
High-yield syntheses, under mild conditions, of various neutral and anionic ruthenium and osmium carbonyl clusters by controlled reduction in ethylene glycol of $[M(CO)_3Cl_2]_2$ or MCl_3 (M=Ru, Os) in the presence of Na_2CO_3 or K_2CO_3, 117
Ruthenium complexes
IR study of rotational isomerism in dirhenium and diruthenium complexes of the ferrole type, 36
Ruthenium trichloride reductive carbonylation
High-yield syntheses, under mild conditions, of various neutral and anionic ruthenium and osmium carbonyl clusters by controlled reduction in ethylene glycol of $[M(CO)_3Cl_2]_2$ or MCl_3 (M=Ru, Os) in the presence of Na_2CO_3 or K_2CO_3, 117

Schiff base
Reactivity of $AlMe_3$ with titanium(IV) Schiff base complexes: X-ray structure of $[Ti\{(\mu$-Br$)(AlMe_2)\}\{(\mu$-Br$)(AlMe_2X)\}$-(salen)$] \cdot C_7H_8$ (X = Me or Br) and reactivity studies of mono-alkylated [Ti(Me)X(L)] complexes, 304
Selenadiphosphole
First structural characterisation of 1,2,4-selenadiphosphole and 1,2,4-telluradiphosphole ring systems. Crystal and molecular structures of the η^1-complexes $[M(CO)_5(P_2SeC_2Bu^t_2)]$ (M = Cr, W) and $[W(CO)_5(P_2TeC_2Bu^t_2)]$, 156
Selenium
Bis(2,6-dimethoxyphenyl) sulfide, selenide and telluride, and their derivatives, 282

Separation of enantiomers
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26
Silicon
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
Structure
Synthesis, structure, and reactivity of rhenium *N*-isocyanide complexes $ReBr(CO)_3(CNR)(CNNPPh_3)$, 82
Sulfur
Bis(2,6-dimethoxyphenyl) sulfide, selenide and telluride, and their derivatives, 282
Synthesis
Synthesis and molecular structure of the tetranuclear μ_4-oxo-centered chromium complex $[Cr_4(CH_2CH_2CH_2NMe_2)_4(\mu_4\text{-}O)(\mu\text{-}Cl)_6]$, 56
Synthesis of $[(\mu\text{-}RS)(\mu\text{-}S)\{Fe_2(CO)_6\}_2(\mu_4\text{-}S)]^-$ and their reactivity toward electrophiles, 201

Tantalum
Half-sandwich dichloro, alkyl chloro, dialkyl, alkyl methyl and amido methyl imido cyclopentadienyl niobium and tantalum(V) complexes. Dynamic behaviour of amido imido tantalum derivatives, 161
Telluradiphosphole
First structural characterisation of 1,2,4-selenadiphosphole and 1,2,4-telluradiphosphole ring systems. Crystal and molecular structures of the η^1-complexes $[M(CO)_5(P_2SeC_2Bu^t_2)]$ (M = Cr, W) and $[W(CO)_5(P_2TeC_2Bu^t_2)]$, 156
Tellurium
Bis(2,6-dimethoxyphenyl) sulfide, selenide and telluride, and their derivatives, 282
Tetrachlorodicarbaphosphatriazine
Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, $(ClCN)_2(Cl_2PN)$, 41
Tetrachromium complexes
Synthesis and molecular structure of the tetranuclear μ_4-oxo-centered chromium complex $[Cr_4(CH_2CH_2CH_2NMe_2)_4(\mu_4\text{-}O)(\mu\text{-}Cl)_6]$, 56
Tetramethylborate
Electron transfer versus nucleophilic pathways in the ion-pair annihilation of organoborate anions by carbonylmanganese(I) cations, 295
Tetranuclear cluster
A tetraruthenium carbonyl cluster bearing indenyl-type ligand as the facial bonding mode, 239
Thiazolidine
Ring-opening reactions of thiomorpholine and thiazolidine by $[Ru_3(CO)_{12}]$: crystal structures of $[Ru_3(\mu\text{-}H)(\mu\text{-}\eta^2\text{-}SCH_2CH_2NH_2)(CO)_9]$ and $[Ru_2(\mu\text{-}\eta^3\text{-}SCH_2CH_2NHCH_2)(CO)_6]$, 60
Thiocarbonate compounds
Bispentamethylcyclopentadienyl uranium(IV) thiolate compounds. Synthesis and reactions with CO_2 and CS_2, 137
Thiomorpholine
Ring-opening reactions of thiomorpholine and thiazolidine by $[Ru_3(CO)_{12}]$: crystal structures of $[Ru_3(\mu\text{-}H)(\mu\text{-}\eta^2\text{-}SCH_2CH_2NH_2)(CO)_9]$ and $[Ru_2(\mu\text{-}\eta^3\text{-}SCH_2CH_2NHCH_2)(CO)_6]$, 60
Thiophene
Thermal and photochemical transformations of 2-methylthiothiophene in triosmium clusters: photoinduced migrations of MeS from carbon to metal and back again, 370
Thiosemicarbazone
Synthesis, crystal structure and biological activity of thiophene-2-carboxaldehyde thiosemicarbazone and its tin complexes, 17
Tin
Synthesis, crystal structure and biological activity of thiophene-2-carboxaldehyde thiosemicarbazone and its tin complexes, 17
Titanium
Reactivity of $AlMe_3$ with titanium(IV) Schiff base complexes: X-ray structure of $[Ti\{(\mu\text{-}Br)(AlMe_2)\}\{(\mu\text{-}Br)(AlMe_2X)\}(salen)] \cdot C_7H_8$ (X = Me or Br) and reactivity studies of mono-alkylated [Ti(Me)X(L)] complexes, 304
Titanium complexes
Synthesis and olefin polymerization using supported and non-supported geometry constrained titanium complexes, 145
Titanium(II)
A directly ring-to-ring linked ferrocene–pseudotitanocene complex, 210
Triallylborane
Reaction of 1-alkynylsilanes with triallylborane—competition between 1,1- and 1,2-allylboration, 234
tri-*n*-Butylgermane
Cp_2TiCl_2 catalyzed one-pot synthesis of $n\text{-}Bu_3GeH$ from $GeCl_4$, 378
Triorganotin(IV) complex
Tin(IV) and organotin(IV) derivatives of novel β-diketones: Part IV. Triorganotin(IV) complexes of fluorinated 4-acyl-5-pyrazolones. Crystal structure of (1-(4-trifluoromethylphenyl)-3-methyl-4-acetylpyrazolon-5-ato)triphenyltin(IV), 344
Triphos
Synthesis and characterisation of the bidentately attached linear triphos complexes $[MXY(CO)(L\text{-}P,P')(\eta^2\text{-}RC_2R)]$ {M = Mo, W; X, Y = Cl, Br, I; L = $PhP(CH_2CH_2PPh_2)_2$; R = Me, Ph}. X-ray crystal structures of $[WX_2(CO)(L\text{-}P,P')(\eta^2\text{-}PhC_2Ph)]$ (X = Br and I) and $[MoI_2(O)\{Ph_2P(CH_2)_2PPh(CH_2)_2POPh_2\text{-}P,P',O\}]$, 265
Tungsten
Alkyl and alkylidene imido cyclopentadienyl tungsten complexes, 110
First structural characterisation of 1,2,4-selenadiphosphole and 1,2,4-telluradiphosphole ring systems. Crystal and molecular structures of the η^1-complexes $[M(CO)_5(P_2SeC_2Bu^t_2)]$ (M = Cr, W) and $[W(CO)_5(P_2TeC_2Bu^t_2)]$, 156
Synthesis and characterisation of the bidentately attached linear triphos complexes $[MXY(CO)(L\text{-}P,P')(\eta^2\text{-}RC_2R)]$ {M = Mo, W; X, Y = Cl, Br, I; L = $PhP(CH_2CH_2PPh_2)_2$; R = Me, Ph}. X-ray crystal structures of $[WX_2(CO)(L\text{-}P,P')(\eta^2\text{-}PhC_2Ph)]$ (X = Br and I) and $[MoI_2(O)\{Ph_2P(CH_2)_2PPh(CH_2)_2POPh_2\text{-}P,P',O\}]$, 265
Tungstenocene
Synthesis of bis-cyclopentadienyl, bis-indenyl and mixed-ring indenyl halides of tungsten, 169

Uranium(IV) thiolate compounds
Bispentamethylcyclopentadienyl uranium(IV) thiolate compounds. Synthesis and reactions with CO_2 and CS_2, 137

Vanadium
Methylcyclopentadienyl-vanadium(III) complexes, 72
Vinylic organoborane dienophiles
Syntheses with organoboranes. IX. Vinyl- and 1-alkenyldichloroboranes as ethylene and 1-alkene equivalents for the Diels–Alder reaction, 354

X-ray crystal structure
Synthesis and structure of biologically active ferrocenylalkyl polyfluoro benzimidazoles, 26
X-ray diffraction
Synthesis of bis-cyclopentadienyl, bis-indenyl and mixed-ring indenyl halides of tungsten, 169

Zirconium
C_2-bridged metallocene dichloride complexes of the types $(C_{13}H_8\text{–}CH_2CHR\text{–}C_9H_{6-n}R'_n)ZrCl_2$ and $(C_{13}H_8\text{–}CH_2CHR\text{–}C_{13}H_8)MCl_2$ ($n = 0$, 1; R = H, alkenyl; R′ = alkenyl, benzyl; M = Zr, Hf) as self-immobilizing catalyst precursors for ethylene polymerization, 1